

SEQUENCE LISTING

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<120> AVIDIN MUTANTS

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<140> 10/579,393

<141> 2006-05-15

<150> PCT/FI04/000679

<151> 2004-11-15

<150> FI 20031663

<151> 2003-11-14

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<170> PatentIn Ver. 3.3

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<211> 152

<212> PRT

<213> Gallus gallus

 $\langle 400 \rangle$ 1

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Ala Leu Val Ala Pro Gly Leu Ser Ala Arg Lys Cys Ser Leu Thr Gly
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Lys Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn
35 40 45

Ser Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr
50 55 60

Ser Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile
65 70 75 80

Asn Lys Arg Thr Gln Pro Thr Phe Gly Phe Thr Val Asn Trp Lys Phe
85 90 95

Ser Glu Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp Arg Asn
100 105 110

Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser Val Asn
115 120 125

Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn Ile Phe
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Thr Arg Leu Arg Thr Gln Lys Glu
145 150

<210> 2
<211> 298
<212> PRT
<213> Gallus gallus

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20 25 30
Phe Gly Phe Thr Val Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe
35 40 45
Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr
50 55 60
Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys
65 70 75 80
Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys
85 90 95
Glu Gly Gly Ser Gly Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys
100 105 110
Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser
115 120 125
Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr Ser
130 135 140
Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn
145 150 155 160
Lys Ser Gly Gly Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp
165 170 175
Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser
180 185 190
Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn
195 200 205
Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Gly Ser Gly Gly Ser
210 215 220
Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser
225 230 235 240
Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr
245 250 255

Tyr Ile Thr Ala Val Thr Ala Thr Ser Asn Glu Ile Lys Glu Ser Pro
260 265 270

Leu His Gly Thr Gln Asn Thr Ile Asn Lys Arg Thr Gln Pro Thr Phe
275 280 285

Gly Phe Thr Val Asn Trp Lys Phe Ser Glu
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<210> 3
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide linker

<400> 3
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1 5

<210> 4
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 4
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<210> 5
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 5
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<210> 6
<211> 20
<212> DNA
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<220>

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<220> <223> Description of Artificial Sequence: Synthetic primer	
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<210> 11
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 11
 agacaaagct tcactctgaa aacttccaat tg 32

 <210> 12
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 12
 gtggtggatc cgccggactt gttgatggtg ttttgtgt 38

 <210> 13
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic primer

 <400> 13
 ccggcggatc caccactgtc ttcacgggc 29

 <210> 14
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 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic oligonucleotide

 <400> 14
 agggtcggct cgaacatctt 20

 <210> 15
 <211> 20
 <212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 15

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20

<210> 16

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 16

cacaggcacc cacatcacag ccg

23

<210> 17

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 17

cggctgtgat gtgggtgcct gtg

23

<210> 18

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 18

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18

<210> 19

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 19
gacagtggta gatccgcc 18

<210> 20
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 20
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<210> 21
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

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<210> 22
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 22
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 23
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<210> 24
 <211> 581
 <212> PRT
 <213> Gallus gallus

<400> 24
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 20 25 30
 Phe Gly Phe Thr Val Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe
 35 40 45
 Thr Gly Gln Cys Phe Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr
 50 55 60
 Met Trp Leu Leu Arg Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys
 65 70 75 80
 Ala Thr Arg Val Gly Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys
 85 90 95
 Glu Gly Gly Ser Gly Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys
 100 105 110
 Trp Thr Asn Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser
 115 120 125
 Arg Gly Glu Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr Ser
 130 135 140
 Asn Glu Ile Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn
 145 150 155 160
 Lys Ser Gly Gly Ser Thr Thr Val Phe Thr Gly Gln Cys Phe Ile Asp
 165 170 175
 Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu Leu Arg Ser Ser
 180 185 190
 Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg Val Gly Ile Asn
 195 200 205
 Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Gly Ser Gly Gly Ser
 210 215 220
 Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn Asp Leu Gly Ser
 225 230 235 240
 Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu Phe Thr Gly Thr
 245 250 255
 Tyr Ile Thr Ala Val Thr Ala Thr Ser Asn Glu Ile Lys Glu Ser Pro
 260 265 270

Leu	His	Gly	Thr	Gln	Asn	Thr	Ile	Asn	Lys	Arg	Thr	Gln	Pro	Thr	Phe	
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Gly	Phe	Thr	Val	Asn	Trp	Lys	Phe	Ser	Glu	Gly	Gly	Ser	Gly	Ser	Gly	
	290					295					300					
Ser	Gly	Ser	Gly	Ser	Gly	Arg	Thr	Gln	Pro	Thr	Phe	Gly	Phe	Thr	Val	
305					310					315					320	
Asn	Trp	Lys	Phe	Ser	Glu	Ser	Thr	Thr	Val	Phe	Thr	Gly	Gln	Cys	Phe	
				325					330					335		
Ile	Asp	Arg	Asn	Gly	Lys	Glu	Val	Leu	Lys	Thr	Met	Trp	Leu	Leu	Arg	
			340					345					350			
Ser	Ser	Val	Asn	Asp	Ile	Gly	Asp	Asp	Trp	Lys	Ala	Thr	Arg	Val	Gly	
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Ile	Asn	Ile	Phe	Thr	Arg	Leu	Arg	Thr	Gln	Lys	Glu	Gly	Gly	Ser	Gly	
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Gly	Ser	Asn	Met	Thr	Ile	Gly	Ala	Val	Asn	Ser	Arg	Gly	Glu	Phe	Thr	
				405					410					415		
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Arg	Thr	Gln	Lys	Glu	Gly	Gly	Ser	Gly	Gly	Ser	Ala	Arg	Lys	Cys	Ser	
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		515				520						525				
Ala	Val	Asn	Ser	Arg	Gly	Glu	Phe	Thr	Gly	Thr	Tyr	Ile	Thr	Ala	Val	
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Asn	Thr	Ile	Asn	Lys	Arg	Thr	Gln	Pro	Thr	Phe	Gly	Phe	Thr	Val	Asn	
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Trp Lys Phe Ser Glu
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<210> 25
<211> 1746
<212> DNA
<213> Gallus gallus

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gctaccaggg tcggcatcaa catcttcact cgctgcgca cacagaagga gggaggctcc 300
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ctgggctcca acatgaccat cggggctgtg aacagcagag gtgaattcac aggcacctac 1620
atcacagccg taacagccac atcaaatgag atcaaagagt caccactgca tgggacacaa 1680
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gagtga 1746

<210> 26
<211> 897
<212> DNA
<213> Gallus gallus

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acagccacat caaatgagat caaagagtca ccactgcatg ggacacaaaa caccatcaac 480
aagtccggcg gatccaccac tgtcttcacg ggccagtgtc tcatagacag gaatgggaag 540

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aacatgacca tcggggctgt gaacagcaga ggtgaattca caggcaccta catcacagcc 780
gtaacagcca catcaaatga gatcaaagag tcaccactgc atgggacaca aaacaccatc 840
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<210> 27

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 27

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31

<210> 28

<211> 290

<212> PRT

<213> Gallus gallus

<400> 28

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Thr Val Asn Trp Lys Phe Ser Glu Ser Thr Thr Val Phe Thr Gly Gln
35 40 45

Cys Phe Ile Asp Arg Asn Gly Lys Glu Val Leu Lys Thr Met Trp Leu
50 55 60

Leu Arg Ser Ser Val Asn Asp Ile Gly Asp Asp Trp Lys Ala Thr Arg
65 70 75 80

Val Gly Ile Asn Ile Phe Thr Arg Leu Arg Thr Gln Lys Glu Gly Gly
85 90 95

Ser Gly Gly Ser Ala Arg Lys Cys Ser Leu Thr Gly Lys Trp Thr Asn
100 105 110

Asp Leu Gly Ser Asn Met Thr Ile Gly Ala Val Asn Ser Arg Gly Glu
115 120 125

Phe Thr Gly Thr Tyr Ile Thr Ala Val Thr Ala Thr Ser Asn Glu Ile
130 135 140

Lys Glu Ser Pro Leu His Gly Thr Gln Asn Thr Ile Asn Lys Ser Gly
145 150 155 160

Gly	Ser	Lys	Glu	Ser	Pro	Leu	His	Gly	Thr	Gln	Asn	Thr	Ile	Asn	Lys	
				165					170					175		
Arg	Thr	Gln	Pro	Thr	Phe	Gly	Phe	Thr	Val	Asn	Trp	Lys	Phe	Ser	Glu	
			180					185					190			
Ser	Thr	Thr	Val	Phe	Thr	Gly	Gln	Cys	Phe	Ile	Asp	Arg	Asn	Gly	Lys	
		195					200					205				
Glu	Val	Leu	Lys	Thr	Met	Trp	Leu	Leu	Arg	Ser	Ser	Val	Asn	Asp	Ile	
	210					215					220					
Gly	Asp	Asp	Trp	Lys	Ala	Thr	Arg	Val	Gly	Ile	Asn	Ile	Phe	Thr	Arg	
225					230					235					240	
Leu	Arg	Thr	Gln	Lys	Glu	Gly	Gly	Ser	Gly	Gly	Ser	Ala	Arg	Lys	Cys	
				245					250					255		
Ser	Leu	Thr	Gly	Lys	Trp	Thr	Asn	Asp	Leu	Gly	Ser	Asn	Met	Thr	Ile	
			260					265					270			
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Val Thr
290

<210> 29
<211> 873
<212> DNA
<213> Gallus gallus

<400> 29
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tccaccactg tcttcacggg ccagtgcctc atagacagga atgggaagga ggtcctgaag 180
accatgtggc tgctgcggtc aagtgttaat gacattggtg atgactggaa agctaccagg 240
gtcggcatca acatcttcac tcgcctgcgc acacagaagg agggaggctc cggaggctcc 300
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ctgcgcacac agaaggaggg aggtcccgga ggctccgcca gaaagtgtc gctgactggg 780
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ttcacaggca cctacatcac agccgtaaca taa 873

<210> 30
<211> 4
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 30
Ser Gly Gly Ser
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<210> 31
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 31
Gly Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Gly
1 5 10

<210> 32
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 32
Gly Gly Ser Gly Ser Gly Ser
1 5

<210> 33
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<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 33
Gly Ser Gly Ser Gly Ser Gly
1 5